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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/982,224	10/18/2001	Jacobo Bibliowicz	G&C 30566.198-US-01	7407

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EXAMINER

BONSHOCK, DENNIS G

ART UNIT	PAPER NUMBER
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2173

DATE MAILED: 01/13/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 09/982,224	Applicant(s) BIBLIOWICZ ET AL.	
	Examiner Dennis G. Bonshock	Art Unit 2173	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 16 August 2004.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-7,9-16,18-26,28-35,37-45,47-54,56 and 57 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-7,9-16,18-26,28-35,37-45,47-54,56 and 57 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

Final Rejection

Response to Amendment

1. It is hereby acknowledged that the following papers have been received and placed on record in the file: Amendment as received on 08-16-04.

2. Claims 1-57 have been examined.

Status of Claims:

3. Claims 1-7, 9-16, 18-26, 28-35, 37-45, 47-54, 56, and 57 are rejected under 35 U.S.C. 103(a) as being unpatentable over Brown et al., Patent #6,067,551, hereinafter Brown, Kumar et al., Patent #6,342,906, hereinafter Kumar and Caronni et al., Patent #6,195,751, hereinafter Caronni.

Claims 8, 17, 27, 36, 46, and 55 have been cancelled by the applicant.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 1-7, 9-16, 18-26, 28-35, 37-45, 47-54, 56, and 57 are rejected under 35 U.S.C. 103(a) as being unpatentable over Brown et al., Patent #6,067,551, hereinafter Brown, Kumar et al., Patent #6,342,906, hereinafter Kumar and Caronni et al., Patent #6,195,751, hereinafter Caronni.

6. With regard to claim 1, Brown teaches a method of collaborating users access to a document on a network (see column 2, lines 48-65), storing a document on a server

(see column 2, lines 56-61), receiving a request, in the server, to open the document (see column 10, lines 65 through column 11, line 3), establishing a collaboration session where the sever permits two or more users to work simultaneously across a network on a document stored on the server (see column 2, liens 46-65), receiving a command to modify the document from a first user in the session (see column 3, lines 30-34), and the server distributing the command to modify to the other ones of the collaborators in the session (see column 4, lines 7-26). Brown, however, doesn't explicitly state that the document being shared is a drawing document. Kumar teaches as system of collaborating with a group of users on a project (see column 3, lines 33-51), similar to that of Brown, but further teaches the data in the shared workspace being a drawing document (see column 3, lines 39-51). It would have been obvious to one of ordinary skill in the art, having the teachings of Brown and Kumar before him at the time the invention was made to modify the collaborating system of Brown to share drawing documents. One would have been motivated to make such a combination because Brown states that the system can be implemented with other types of documents, where a drawing document as used in Kumar is an obvious choice. Brown further teaches, in column 1, lines 45-55, that the user regularly accesses common documents from the server, but doesn't specifically teach collaborators communicating the modifications of documents through the use of heartbeat commands regularly transmitted at defined intervals. Caronni teaches a system in which there is a group collaboration session between a plurality of users, in which revision information is passed between users (see column 6, lines 4-19 and column 12, lines 15-25), similar to that of Brown and Kumar,

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but further teaches, the transmission of updated revised information being transmitted by regularly transmitted heartbeat messages (see column 11, line 61 through column 12, line 52). It would have been obvious to one of ordinary skill in the art, having the teachings of Brown, Kumar, and Caronni before him at the time the invention was made to modify the notification system of Brown and Kumar to include the use of heartbeat commands, as did Caronni. One would have been motivated to make such a combination because in a system in which the current document must be kept up to date with the most current version of a document a regularly transmitted signal (such as heartbeat messages) would provide continual updating.

7. With regard to claims 2, 21, and 40, which teach the server maintaining a history of modifications to the drawing document, Brown further teaches, in column 17, lines 1-14, keeping a change history.

8. With regard to claims 3, 14, 22, 33, 41, and 52, which teach the history being used to support an undo command, Brown teaches, in column 15, lines 24-35, an undo file which uses various edits (changes) of the users.

9. With regard to claims 4, 23, and 42, which teach the history being used to re-communicate modifications to the two or more users, Brown further teaches, in column 17, lines 1-14, keeping a change history, which maintains the recent changes.

10. With regard to claims 5, 16, 24, 35, 43, and 54, which teach the server maintaining a record of the collaboration session including name, numbers, and statuses of the two or more collaborators, Brown further teaches, in column 11, line 66

through column 12, line 8, and in figure 3, a record file for a user containing a name, a date/time number, and a user version identifier.

11. With regard to claims 6, 15, 25, 34, 44, and 53, which teach the command comprising an extensible markup language XML command, Brown teaches, in column 18, lines 12-27, using a language most useful for the users' needs and purposes, where XML would be an obvious choice for this network based application.

12. With regard to claims 7, 26, and 45, which teach two or more collaborators all having write access for the drawing document during the session, Brown further teaches, in column 5, lines 35-46, a multi-user system that provides simultaneous editing.

13. With regard to claims 9, 28, and 47, which teach generating an identifier for the command, Brown teaches, in column 3, lines 50-60, an identifier for a command. With regard to claim 9, further teaching distributing the identifier with the command to the other collaborators in the session, Brown further teaches, in column 4, lines 6-27, the other users using the system with the version id number.

14. With regard to claims 10, 18, 29, 37, 48, and 56, which teach the command specifies an object identifier for an object in the drawing document that is modified, Brown further teaches, in column 4, lines 6-27, the tracking and saving of edited versions that contain id numbers.

15. With regard to claims 11, 19, 30, 38, 49, and 57, which teach an extensible set of three dimensional modeling tools for modifying the drawing document, Kumar further

teaches, in column 3, lines 3, lines 39-51 and column 4, lines 10-24, a drawing document with a three-dimensional view which is editable by a drawing tool.

16. With regard to claim 12, Brown teaches a method of collaborating users access to a document on a network (see column 2, lines 48-65), establishing a collaboration session where the sever permits two or more users to work simultaneously across a network on a document stored on the server (see column 2, liens 46-65), and receiving a command to modify the document from a first user in the session (see column 3, lines 30-34). Brown, however, doesn't explicitly state that the document being shared is a drawing document. Kumar teaches as system of collaborating with a group of users on a project (see column 3, lines 33-51), similar to that of Brown, but further teaches the data in the shared workspace being a drawing document (see column 3, lines 39-51). It would have been obvious to one of ordinary skill in the art, having the teachings of Brown and Kumar before him at the time the invention was made to modify the collaborating system of Brown to share drawing documents. One would have been motivated to make such a combination because Brown states that the system can be implemented with other types of documents, where a drawing document as used in Kumar is an obvious choice. Brown further teaches, in column 1, lines 45-55, that the user regularly accesses common documents from the server, but doesn't specifically teach collaborators communicating the modifications of documents through the use of heartbeat commands regularly transmitted at defined intervals. Caronni teaches a system in which there is a group collaboration session between a plurality of users, in which revision information is passed between users (see column 6, lines 4-19 and

column 12, lines 15-25), similar to that of Brown and Kumar, but further teaches, the transmission of updated revised information being transmitted by regularly transmitted heartbeat messages (see column 11, line 61 through column 12, line 52). It would have been obvious to one of ordinary skill in the art, having the teachings of Brown, Kumar, and Caronni before him at the time the invention was made to modify the notification system of Brown and Kumar to include the use of heartbeat commands, as did Caronni. One would have been motivated to make such a combination because in a system in which the current document must be kept up to date with the most current version of a document a regularly transmitted signal (such as heartbeat messages) would provide continual updating.

17. With regard to claim 13, which teaches receiving a second command, as a part of a second heartbeat command, to modify the document from the server wherein the command was originally transmitted from another collaborator, Kumar further teaches, in column 3, lines 48-51, the workspace being kept synchronized with everyone else, by synchronization between clients through servers.

18. With regard to claim 20, Brown teaches, a system with a shard disk on a network and use of a shared server (see column 2, lines 46-62), a method of collaborating users access to a document on a network (see column 2, lines 48-65), a computer program stored on the server (see column 4, lines 7-11), storing a document on a server (see column 2, lines 56-61), receiving a request, in the server, to open the document (see column 10, lines 65 through column 11, line 3), establishing a collaboration session where the sever permits two or more users to work simultaneously across a network on

a document stored on the server (see column 2, lines 46-65), receiving a command to modify the document from a first user in the session (see column 3, lines 30-34), and the server distributing the command to modify to the other ones of the collaborators in the session (see column 4, lines 7-26). Brown, however, doesn't explicitly state that the document being shared is a drawing document. Kumar teaches as system of collaborating with a group of users on a project (see column 3, lines 33-51), similar to that of Brown, but further teaches the data in the shared workspace being a drawing document (see column 3, lines 39-51). It would have been obvious to one of ordinary skill in the art, having the teachings of Brown and Kumar before him at the time the invention was made to modify the collaborating system of Brown to share drawing documents. One would have been motivated to make such a combination because Brown states that the system can be implemented with other types of documents, where a drawing document as used in Kumar is an obvious choice. Brown further teaches, in column 1, lines 45-55, that the user regularly accesses common documents from the server, but doesn't specifically teach collaborators communicating the modifications of documents through the use of heartbeat commands regularly transmitted at defined intervals. Caronni teaches a system in which there is a group collaboration session between a plurality of users, in which revision information is passed between users (see column 6, lines 4-19 and column 12, lines 15-25), similar to that of Brown and Kumar, but further teaches, the transmission of updated revised information being transmitted by regularly transmitted heartbeat messages (see column 11, line 61 through column 12, line 52). It would have been obvious to one of ordinary skill in the art, having the

teachings of Brown, Kumar, and Caronni before him at the time the invention was made to modify the notification system of Brown and Kumar to include the use of heartbeat commands, as did Caronni. One would have been motivated to make such a combination because in a system in which the current document must be kept up to date with the most current version of a document a regularly transmitted signal (such as heartbeat messages) would provide continual updating.

19. With regard to claim 31, Brown teaches, a system with a shard disk on a network and use of a shared server (see column 2, lines 46-62), a method of collaborating users access to a document on a network (see column 2, lines 48-65), a computer program stored on the server (see column 4, lines 7-11), storing a document on a server (see column 2, lines 56-61), establishing a collaboration session where the sever permits two or more users to work simultaneously across a network on a document stored on the server (see column 2, liens 46-65), and receiving a command to modify the document from a first user in the session (see column 3, lines 30-34). Brown, however, doesn't explicitly state that the document being shared is a drawing document. Kumar teaches as system of collaborating with a group of users on a project (see column 3, lines 33-51), similar to that of Brown, but further teaches the data in the shared workspace being a drawing document (see column 3, lines 39-51). It would have been obvious to one of ordinary skill in the art, having the teachings of Brown and Kumar before him at the time the invention was made to modify the collaborating system of Brown to share drawing documents. One would have been motivated to make such a combination because Brown states that the system can be implemented with other types of documents, where

a drawing document as used in Kumar is an obvious choice. Brown further teaches, in column 1, lines 45-55, that the user regularly accesses common documents from the server, but doesn't specifically teach collaborators communicating the modifications of documents through the use of heartbeat commands regularly transmitted at defined intervals. Caronni teaches a system in which there is a group collaboration session between a plurality of users, in which revision information is passed between users (see column 6, lines 4-19 and column 12, lines 15-25), similar to that of Brown and Kumar, but further teaches, the transmission of updated revised information being transmitted by regularly transmitted heartbeat messages (see column 11, line 61 through column 12, line 52). It would have been obvious to one of ordinary skill in the art, having the teachings of Brown, Kumar, and Caronni before him at the time the invention was made to modify the notification system of Brown and Kumar to include the use of heartbeat commands, as did Caronni. One would have been motivated to make such a combination because in a system in which the current document must be kept up to date with the most current version of a document a regularly transmitted signal (such as heartbeat messages) would provide continual updating.

20. With regard to claim 32, which teaches the computer program configured to receive a second command, as a part of a second heartbeat command, to modify the document from the server wherein the command was originally transmitted from another collaborator, Brown further teaches, the server distributing the command to modify to the other ones of the collaborators in the session (see column 4, lines 7-26). Kumar

further teaches this limitation in column 3, lines 48-51, where he discusses the synchronization of the systems.

21. With regard to claim 39, Brown teaches a computer readable medium which performs a method of collaborating users access to a document on a network (see column 2, lines 48-65), storing a document on a server (see column 2, lines 56-61), receiving a request, in the server, to open the document (see column 10, lines 65 through column 11, line 3), establishing a collaboration session where the sever permits two or more users to work simultaneously across a network on a document stored on the server (see column 2, liens 46-65), receiving a command to modify the document from a first user in the session (see column 3, lines 30-34), and the server distributing the command to modify to the other ones of the collaborators in the session (see column 4, lines 7-26). Brown, however, doesn't explicitly state that the document being shared is a drawing document. Kumar teaches as system of collaborating with a group of users on a project (see column 3, lines 33-51), similar to that of Brown, but further teaches the data in the shared workspace being a drawing document (see column 3, lines 39-51). It would have been obvious to one of ordinary skill in the art, having the teachings of Brown and Kumar before him at the time the invention was made to modify the collaborating system of Brown to share drawing documents. One would have been motivated to make such a combination because Brown states that the system can be implemented with other types of documents, where a drawing document as used in Kumar is an obvious choice. Brown further teaches, in column 1, lines 45-55, that the user regularly accesses common documents from the server, but doesn't specifically

teach collaborators communicating the modifications of documents through the use of heartbeat commands regularly transmitted at defined intervals. Caronni teaches a system in which there is a group collaboration session between a plurality of users, in which revision information is passed between users (see column 6, lines 4-19 and column 12, lines 15-25), similar to that of Brown and Kumar, but further teaches, the transmission of updated revised information being transmitted by regularly transmitted heartbeat messages (see column 11, line 61 through column 12, line 52). It would have been obvious to one of ordinary skill in the art, having the teachings of Brown, Kumar, and Caronni before him at the time the invention was made to modify the notification system of Brown and Kumar to include the use of heartbeat commands, as did Caronni. One would have been motivated to make such a combination because in a system in which the current document must be kept up to date with the most current version of a document a regularly transmitted signal (such as heartbeat messages) would provide continual updating.

22. With regard to claim 50, Brown teaches a computer readable medium which performs a method of collaborating users access to a document on a network (see column 2, lines 48-65), establishing a collaboration session where the sever permits two or more users to work simultaneously across a network on a document stored on the server (see column 2, liens 46-65), and receiving a command to modify the document from a first user in the session (see column 3, lines 30-34). Brown, however, doesn't explicitly state that the document being shared is a drawing document. Kumar teaches as system of collaborating with a group of users on a project (see column 3, lines 33-

51), similar to that of Brown, but further teaches the data in the shared workspace being a drawing document (see column 3, lines 39-51). It would have been obvious to one of ordinary skill in the art, having the teachings of Brown and Kumar before him at the time the invention was made to modify the collaborating system of Brown to share drawing documents. One would have been motivated to make such a combination because Brown states that the system can be implemented with other types of documents, where a drawing document as used in Kumar is an obvious choice. Brown further teaches, in column 1, lines 45-55, that the user regularly accesses common documents from the server, but doesn't specifically teach collaborators communicating the modifications of documents through the use of heartbeat commands regularly transmitted at defined intervals. Caronni teaches a system in which there is a group collaboration session between a plurality of users, in which revision information is passed between users (see column 6, lines 4-19 and column 12, lines 15-25), similar to that of Brown and Kumar, but further teaches, the transmission of updated revised information being transmitted by regularly transmitted heartbeat messages (see column 11, line 61 through column 12, line 52). It would have been obvious to one of ordinary skill in the art, having the teachings of Brown, Kumar, and Caronni before him at the time the invention was made to modify the notification system of Brown and Kumar to include the use of heartbeat commands, as did Caronni. One would have been motivated to make such a combination because in a system in which the current document must be kept up to date with the most current version of a document a regularly transmitted signal (such as heartbeat messages) would provide continual updating.

23. With regard to claim 51, which teaches receiving a second command, as a part of a second heartbeat command, to modify the document from the server wherein the command was originally transmitted from another collaborator, Kumar further teaches, in column 3, lines 48-51, the workspace being kept synchronized with everyone else, by synchronization between clients through servers.

Response to Arguments

24. The arguments filed on 08-16-04 have been fully considered but they are not persuasive. Reasons set forth below.

25. The applicants' argue that neither Brown nor Kumar teach a collaboration session wherein modifications to a drawing are transmitted to a server from collaborators (and vice versa) pursuant to a heartbeat command which is regularly transmitted at defined intervals.

26. In response, the examiner respectfully submits that the Applicant's arguments with respect to claims 1, 12, 20, 31, 39, and 50 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

27. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

28. A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

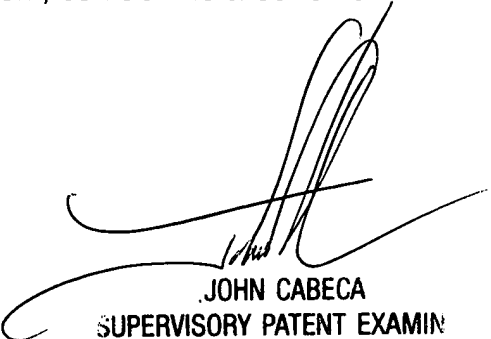
29. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dennis G. Bonshock whose telephone number is (571) 272-4047. The examiner can normally be reached on Monday - Friday, 6:30 a.m. - 4:00 p.m.

30. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Cabeca can be reached on (571) 272-4048. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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31. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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